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ENCL. 4

HIGHLIGHT STATEMENTS FOR GRA

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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RAILROAD MAP OF THE USSR

Our detailed map of the Soviet rail network, now available in a 1962 edition, has become a primary intelligence reference tool in the U.S. intelligence community

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The map

summarizes current knowledge on the status of Soviet rail trackage, gauge, construction, and electrification. This information is of vital importance to intelligence analysis and military plans,

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**SECRET****CIA-AMS INTELLIGENCE MAPPING PROGRAM**

In response to the need for an all-source summary of evaluated intelligence on areas of missile-related and other strategic targets in the USSR and the need for up-to-date medium-scale maps of the country, an extensive program is underway for the production of an annotated intelligence map series. Strategic areas in China are also being covered. This program is being carried out jointly by the Agency and Army Map Service and will probably extend over a five-year period. It represents a major effort to make use of the combined capabilities and knowledge of the Agency and the Army Map Service, with the Agency contribution being the location, identification, and evaluation of all important intelligence targets in the areas concerned. The final product is particularly important in evaluating new information on missile-related targets and is being used by the Army, Navy, and SAC, as well as by this Agency.

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**GEOGRAPHIC RESEARCH SUPPORT OF**  
**SECRET SCIENTIFIC INTELLIGENCE PROBLEMS**

Field testing by the Soviets of nuclear devices and BW and CW agents has stimulated requirements for geographic analyses of the areas of suspect activity. The distribution of major geographic and geologic controls on clandestine underground nuclear testing in the USSR has already been studied. Research on additional important factors is planned. Our analyses of areas of suspected BW and CW activity are similarly prepared to aid in determination of Soviet capabilities in these fields.

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GEOGRAPHIC INTELLIGENCE SUPPORT ON AFRICA

African conflicts continue to engage intensive research attention. We are preparing a new geographic briefing memorandum on the Congo which will highlight national problems and the special character and role of Katanga Province. Additional research is being done on geographic factors

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Basic socio-political

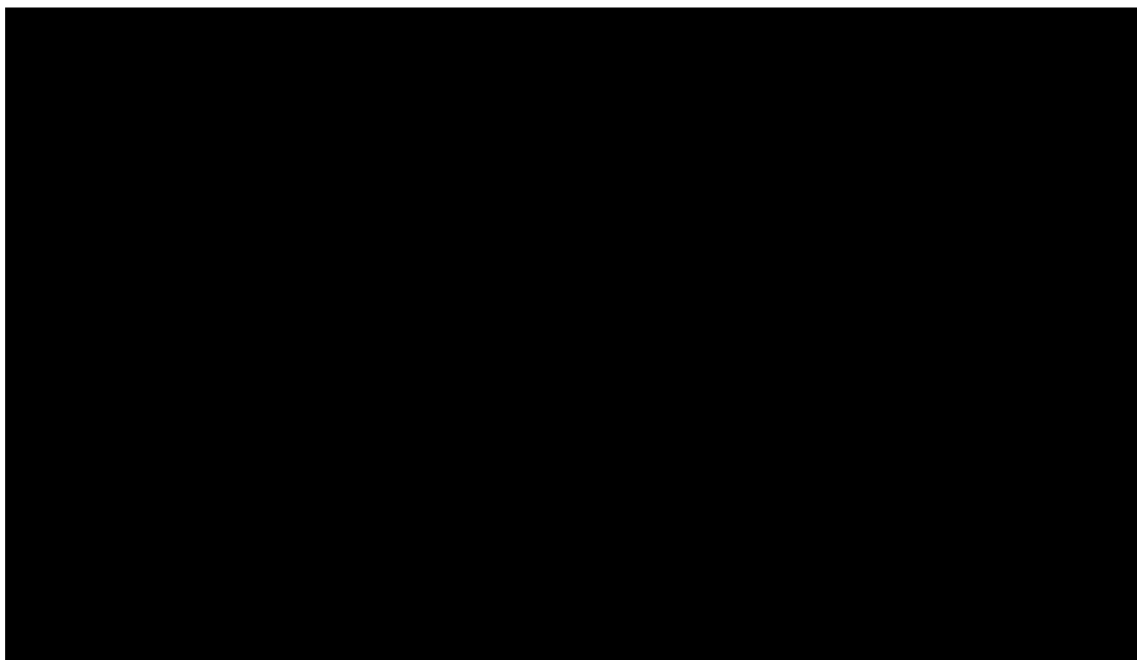
information on new countries of Africa is being collected through an external research project for which three researchers are currently in the field and a fourth is scheduled to depart shortly.

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GEOGRAPHIC RESEARCH SUPPORT ON CUBA

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Of unique timeliness was a geographical survey of Cuban caves, issued just prior to the crisis in October. As a "best-seller" throughout the Intelligence Community, this series of some 350 individual cards served as the working tool for numerous offices concerned with analyzing the potential utility of caves for missile storage as well as for other, less critical but significant military uses.

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GEOGRAPHIC INTELLIGENCE SUPPORT  
IN RESPONSE TO CRITICAL ASIAN SITUATIONS

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Geographic research was also heavily involved in policy and planning support related to the Sino-Indian border war. A brief was prepared for the White House on environmental factors affecting military operations along the Sino-Indian frontier, and more comprehensive reports were prepared on the Ladakh situation and the Indian Northeast Frontier Agency; copies of these studies were used by members of the Harriman Mission to India. Memoranda on Malaysia, Timor, and British Borneo, requested by the Office of National Estimates, are being used in the compilation of an estimate on Indonesia's policies and activities vis-a-vis its neighbors in Southeast Asia, particularly British Borneo.

SOVIET MILITARY MAP GRID

25X1D OBR's work on reconstructing the Soviet military grid (Gauss-Kruger), started several years ago, was carried forward during 1962 at the request [REDACTED] We furnished [REDACTED] a set of 25X1D overlays of the grid and have been informed that the overlays are very useful. There is increasing evidence that widespread surveying currently being carried on by East German and Soviet personnel is related to missile sites in East Germany. OBR is keeping abreast of the surveying developments as a means of evaluating the pattern of missile deployment in East Germany.

PRIORITY RESEARCH SUPPORT ON BERLIN

The continual strengthening of the barriers along the western border of the Soviet Sector in Berlin and the threats of a renewed Berlin blockade during the year brought forth requirements for four exhaustive geographic briefing studies. Two studies were prepared on the Berlin Wall; the first, for the USIB Berlin Committee and the Berlin Task Force, traced the evolution of the wall and described its physical characteristics as of about January 1962. The second report was responsive to a request from the Berlin Task Force and updated the information to April 1962. The Berlin Task Force was also supported with a special report on Berlin air corridors and air traffic control, the volume of Berlin air traffic, Western airlift capabilities, and the potential means of harassment available to the Soviets or East Germans.

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A companion report on surface access to West Berlin, for general use, discussed the amount and kinds of surface traffic; the agreements and usage regarding Western access by rail, highway, and waterway; potential means of harassment; and potential countermeasures.

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GEODETIC ASPECTS OF GUIDED-MISSILE INTELLIGENCE

In support of national estimates of Soviet military capabilities, ONR studies and evaluates Soviet progress in geodesy and gravimetry as related to their capability to position targets in the Free World, particularly U.S. missile launch sites. This past year we undertook a research project involving simulation of a missile-site positioning operation by an enemy agent. This study promises to be additionally useful in devising means to reduce and frustrate Soviet attempts to improve targeting accuracy. Through an associated collation of information on Soviet geodetic and mapping activities we are hoping to derive indicators of vital military areas in the USSR, including missile launch sites, and to obtain geodetic data in support of U.S. mapping and target position requirements.

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SOVIET ACTIVITIES IN ANTARCTICA

OSR continues to maintain a close watch on Soviet intentions and activities in Antarctica as we have been doing since their first appearance there in 1955. Intelligence estimates and reports were prepared for the Department of State, the Department of Defense and the National Science Foundation for use in planning and implementing U.S. policy on Antarctica and the conduct of associated U.S. activities. An OSR analyst participates in frequent meetings with the Department of State and the Arms Control and Disarmament Agency for the purpose of providing intelligence support to the consideration of U.S. interests and plans for implementing the inspection provisions of the Antarctic Treaty.

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CARTOGRAPHIC SUPPORT FOR  
INTELLIGENCE PRODUCTION

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During 1962, increased cartographic effort was concentrated on the production of intelligence maps and charts in support of

25X1C [REDACTED] intelligence production. Areas of concentrated activity -- i.e., Berlin, the Congo, Cuba, Algeria, Vietnam, and the Sino-Indian Border Area -- required intensive cartographic effort in the form of specialty maps and charts to support current intelligence reporting and briefing. There was also a marked increase in support of scientific intelligence.

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SIGNIFICANT MAP ACQUISITIONS

Significant map acquisitions have included topographic and political boundary maps of northern India procured in India, and an atlas "SSSR, 1962"; over 100 topographic and special subject maps of India and Pakistan were obtained from sources in the United States. Special procurement efforts have resulted in the acquisition of Russian-produced topographic map coverage of Northern Afghanistan. The acquisitions include 88 sheets at 1:100,000, 96 sheets at 1:50,000, and one sheet at 1:250,000. These, combined with a few additional sheets obtained by AID, give us total coverage at 1:100,000 and at 1:50,000. All results of Soviet geodetic work were also obtained. This collection, initiated by the Map Library Division [REDACTED] in 1958-59, may have far-reaching strategic implications in United States geodetic control efforts and in the positioning of targets in that part of the world. The value of the material equated against cost of production, if access to the area were possible, comes to well over \$4,000,000. All materials procured are ~~SECRET/NO FOREIGN DISSEM/NO DISSEM ABROAD/CONTROLLED DISSEM~~. An additional group of maps [REDACTED] in response to Map Library requirements are the 22 topographic maps of Czechoslovakia at the scale of 1:200,000 and 49 at the scale of 1:25,000. This is recent map coverage prepared to meet Soviet specifications. The materials are currently being used in compilation at the Army Map Service. All maps are ~~SECRET/NO FOREIGN DISSEM/CONTROLLED DISSEM~~.

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